

52



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,324	03/21/2002	Ian David Lewis	367.40909X00	6967

20457 7590 08/04/2004

ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-9889

EXAMINER

SHANKAR, VIJAY .

ART UNIT	PAPER NUMBER
----------	--------------

2673

DATE MAILED: 08/04/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/009,324

Applicant(s)

LEWIS, IAN DAVID

Examiner

VIJAY SHANKAR

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on pre-amendment A filed on 3-2-2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) 20-26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 and 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3.8</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
3. Claim 1 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 27. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. Claim 1 recites the limitation " the drivers " in line 7. There is insufficient antecedent basis for this limitation in the claim.
6. Claim 27 recites the limitation " the drivers " in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1-19 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Simmers (5,841,431).

Regarding Claims 1 and 27, Simmers teaches a display device comprising: a liquid crystal display (LCD) comprising first and second liquid crystal cells positioned along a first axis of the display device (Fig.1; Col.2, line 24- col.3, line 30); a first display driver (110) for driving the first liquid crystal cell in a first and second direction; a second display driver (115) for driving the second liquid crystal cell in a first and second direction (Fig.1; Col.2, line 24- col.3, line 60); and means for synchronizing the drivers and wherein the first and second display drivers are positioned at opposed sides of the LCD. (Fig.1; Col.2, line 24- col.3, line 65; Fig.2; col.4, line 1- col.5, line 44; Figs.3-6).

Regarding Claim 2, Simmers teaches a display device wherein the first and second display drivers are positioned at opposed sides of the LCD along the first axis of the display device. (Figs. 1-3; col.2, lines 25-67).

Regarding Claims 3-4, Simmers teaches a display device wherein the first axis extends in the direction of the height of the LCD; and the first axis extends in the direction of the width of the LCD. (Figs. 1-3; col.2, lines 25-67).

Regarding Claims 5-8, Simmers teaches a display device wherein the LCD is substantially symmetrical about a bisector; the bisector is the first axis; and the bisector is a second axis perpendicular to the first(Fig.1; Col.2, line 24- col.3, line 65; Fig.2; col.4, line 1- col.5, line 44; Figs.3-6).

Regarding Claim 9, Simmers teaches a display arrangement comprising a display device comprising a connector for connecting display device circuitry to an external element, and an intermediate element for interfacing the display device and the connector. (Fig.1; Col.2, line 24- col.3, line 65; Fig.2; col.4, line 1- col.5, line 44; Figs.3-6).

Regarding Claim 11, Simmers teaches a display arrangement wherein the intermediate element interconnects the first and second drivers for synchronization. (Figs. 1-3; col.2, lines 25- col.3, line 30).

Regarding Claims 12, 13, Simmers teaches a display arrangement wherein the intermediate element is flexible and a flexible printed circuit (FPC) foil. (Figs. 1-3; col.2, lines 25-67).

Regarding Claim 14, Simmers teaches a display arrangement wherein the intermediate display element comprises display device power control circuitry. (560. in fig.5; see figs.5,6; Col.7, line 64- col.8, line 13).

Regarding Claim 15, Simmers teaches a display arrangement wherein the display device further comprises first and second flexible driver supports for supporting the respective first and second drivers (Fig.1; col.2, lines 24-65).

Regarding Claims 10, 16-17, Simmers teaches a display arrangement wherein the flexible driver supports flex to contact the LCD and the intermediate element is located behind the LCD; and the flexible driver supports are FPC foils. (Fig.1; Col.2, line 24- col.3, line 65; Fig.2; col.4, line 1- col.5, line 44; Figs.3-6).

Regarding Claims 18-19, Simmers teaches a display module and a portable device comprising a display device. (Figs.3-6; Col.1, lines 12-55).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VIJAY SHANKAR whose telephone number is 703-305-4763. The examiner can normally be reached on M-F 7:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BIPIN SHALWALA can be reached on 703-305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



VIJAY SHANKAR
Primary Examiner
Art Unit 2673

VS